

XP-002103232

1/1 - (C) WPI / DERWENT

AN - 86-099360 ç15!

AP - SU83 609349 830622

PR - SU83 609349 830622

TI - Clarifier-thickener for sludge-contg. water - in which raw water is fed from feed well to central feed tube and rotating distributor disc

IW - CLARIFY THICKEN SLUDGE CONTAIN WATER RAW WATER FEED FEED WELL CENTRAL FEED TUBE ROTATING DISTRIBUTE DISC

IN - BORTS M A; KOCHETOV V V; KOLBIN A F

PA - (HARD-R) HARD COMBUST ORE

PN - SU1180042 A 850923 DW8615 004pp

ORD - 1985-09-23

IC - B01D21/24

FS - CPI

DC - D15 J01

- AB - SU1180042 The unit comprises a cylindrical thickening tank with central vertical feed tube, which is supplied with raw water from the feed well. The feed tube discharges the raw water on to a rotating disc which distributes the water over the cross-section of the tank. Thickened sludge is removed from the tank by a rotating scraper.
- The raw water is discharged over the weir (10) into the cylindrical feed well (8), and froth is broken down by tangential water jets (11). The water flows through the pipe (15) into the feed tube, which comprises an upper cylindrical section (2) and lower conical section (3) terminating in the annular section (4) above the rotating disc (6). Residual froth is broken down by tangential water jets (5) at the top of the cylindrical section (2) of the feed tube. The rotating disc (6) has uniformly spaced spiral blades on the upper surface. A rotating scraper (13) removes the sludge from the bottom of the tank. A rotating ripper (12) in the sludge discharge facilitates removal of the settled solids.
 - ADVANTAGE - Improved throughput, performance and reliability. Bul.35/23.9.85. (4pp Dwg.No.1/6)